

Patent claims

1. A stacking device for strip segments, especially
5 for textile strip segments provided with end folds,
having a stacking shaft (2) exhibiting two side walls
(4, 6) and a rear wall (8, 24), further having a shaft
floor (10), which is retirable in accordance with the
10 progressive build-up of the stack, and also having a
stacking lock (17) with hold-down devices (18) and
press-down devices (20) alternately engaging on the
strip segments (14), characterized in that assigned to
the hold-down devices (18) is a light barrier (76)
15 which responds to bulging strip segments (14) in order
to retire the motor-driven (30) shaft floor (10) at
least to the point where the light barrier (76) is
unbroken.

2. The stacking device as claimed in claim 1,
20 characterized in that the side walls (4, 6) is
adjustable to the length of the strip segments (14) to
be stacked.

3. The stacking device as claimed in claim 1 or 2,
25 characterized in that the shaft floor (10) has a slide
(26) assigned to a side wall (4), which slide is
transportable along the side wall (4).

4. The stacking device as claimed in claim 3,
30 characterized in that the slide (26) is provided with a
dedicated drive.

5. The stacking device as claimed in claim 3,
characterized in that the slide (26) is connected to a
35 linear gear (30), preferably having a rotary toothed
belt (32).

6. The stacking device as claimed in claim one of claim 3 to 5, characterized in that disposed on the slide (26) is a guide (36), which extends over the maximum width of the stacking shaft (2) and preferably has two guide rods (38) and on which supports (40, 42) for floor parts (44) of the shaft floor (10) are displaceably disposed, which supports are adjustable in terms of their mutual spacing.
7. The stacking device as claimed in claim 6, characterized in that the support (42) facing away from the slide (26) is configured as a connecting member displaceable on the assigned side wall (6).
8. The stacking device as claimed in one of claims 1 to 7, characterized in that the side walls (4, 6) have on the back rear wall strips (24).
9. The stacking device as claimed in one of claims 1 to 8, characterized in that the stacking shaft (2) is arranged substantially vertically or preferably angled backward.
10. The stacking device as claimed in one of claims 1 to 9, characterized in that the stacking shaft (2) has a guide member (48) for the stack (12), which guide member is disposed between the side walls (4, 6) and extends over the length of the stacking shaft (2) and is adjustable in terms of its distance to the rear wall (8) of the stacking shaft (2) and, where appropriate, in terms of its position between the side walls (4, 6).
11. The stacking device as claimed in one of claims 1 to 10, characterized in that the stacking shaft (2) is open in the upward direction and is configured to allow a packing container to be slipped over.
12. The stacking device as claimed in one of claims 1 to 11, characterized in that the stacking lock (17) is

fixed and the stacking shaft (2) is displaceable parallel to the rear wall (8), at least between the stacking position and an unloading position.

5 13. The stacking device as claimed in claim 12, characterized in that the stacking shaft (2) is additionally displaceable into a stand-by position.

10 14. The stacking device as claimed in claim 12 or 13, characterized in that the rear wall (8) is configured as a fixed back plate, on which the side walls (4, 6) of the stacking shaft (2) are disposed such that they are displaceable transversely to the stacking direction.

15 15. The stacking device as claimed in one of claims 1 to 14, characterized in that the hold-down devices (18) are configured as laterally extensible and retractable pins.

20 16. The stacking device as claimed in one of claims 1 to 15, characterized in that the press-down devices are configured as rakes which can be swung in and out against the stacking shaft.